Table H.--Engineering Index Properties

(Absence of an entry indicates that the data were not estimated.)

 Map symbol	Depth	 USDA texture	Classif 	ication	ـــــــــــــــــــــــــــــــــــــ	ments		_	e passi: umber	-	 Liquid	
and soil name		 	 Unified		>10 inches	3-10 inches	4	10	40	200	limit 	ticity index
l	In	l		- 	 Pct	Pct					Pct	
AgA: Allegheny 		Clay loam, loam, sandy	 CL, ML CL, ML, SC, SM	 A-4 A-4, A-6	 0 0						 15-35 15-35 	
	49-60	Clay loam,	CL, GC, ML,	A-1, A-2, A- 4, A-6 	0 	0-5 	65-100	 55-100 	35-95 	20-75 	 15-35 	NP-15
AgB: Allegheny 		Clay loam, loam, sandy	 CL, ML CL, ML, SC,	 A-4 A-4, A-6	 0 0						 15-35 15-35 	
	49-60		SM	A-1, A-2, A- 4, A-6 	 0 	 0-5 	 65-100 	 55-100 	 35-95 	 20-75 	 15-35 	 NP-15
AgC: Allegheny		Clay loam, loam, sandy	SM	 A-4 A-4, A-6	 0 0						 15-35 15-35 	
	49-60	Clay loam,	SM	A-1, A-2, A- 4, A-6 	 0 	0-5 	 65-100 	 55-100 	 35-95 	 20-75 	 15-35 	 NP-15
AsA: Ashton	9-48	Silt loam, silty clay	 ML CL, CL-ML 	 A-4 A-4, A-6, A-7	 0 0				 75-100 85-100 		 15-35 25-42 	 NP-10 5-20
			 CL, CL-ML, ML, SM	 A-4, A-6 	 0 	 0-5 	 90-100 	 85-100 	 65-95 	 40-90 	 15-40 	 NP-20
Melvin		 	 		 	 	 	 	 	 	 	
AsB: Ashton	9-48	Silt loam, silty clay	 ML CL, CL-ML 	 A-4 A-4, A-6, A-7	 0 0				 75-100 85-100			 NP-10 5-20
			 SM, CL, CL- ML, ML 	A-4, A-6	 0 	 0-5 	 90-100 	 85-100 	 65-95 	40-90 	 15-40 	 NP-20
Melvin			 									
Coolville	7-18	Silty clay loam		 A-4, A-6 A-6, A-7 A-7	 0 0	0	95-100	85-100	 80-100 80-100 80-100	75-95	 24-70 35-50 45-65	 4-17 15-25 20-36
 	40-50	channery silty	 CH, CL 	 A-7 	 0 	 0-5 	 95-100 	 60-100 	 55-100 	 50-95 	 45-65 	 20-36
	50-54	clay loam, silty clay loam Weathered bedrock	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	 USDA texture	 	Classif	icati	on		Fragr >10	ments I 3-10		rcentage sieve n	e passinumber	_	 Liquid limit	
and soli name			ι τ	Unified	 A	ASHTO		>10 inches		4	10	1 40	200		index
	In							Pct	Pct					Pct	
Coolville	7-18 18-40	Silty clay loam			 A-4, A-6, A-7			 0 0	0	95-100	85-100		75-95	 19-40 35-70 45-65	
	40-50	clay loam	 CH, 	CL	 A-7 			0	 0-5 	 95-100 	 60-100 	 55-100 	 50-95 	 45-65 	 20-36
	50-54	Weathered bedrock	 		 			 	 	 	 	 	 	 	
GlC: Gilpin	5-27	Channery loam, channery silt loam, silty	CL,	CL-ML,	 A-4, A-2, 	A-6 A-4,	A-6	 0 0						 20-40 20-40 	
	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay loam	 		 A-1, 4,	A-2, A-6	A-		 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	4-15
	35-39	Todm Unweathered bedrock	 		 			 	 	 	 	 	 	 	
GuC: Gilpin	5-27	 Silt loam Channery loam, channery silt loam, silty	CL,	CL-ML,	 A-4, A-2, 	A-6 A-4,	A-6	 0 0				70-85 35-85 			 4-15 4-15
	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay	 GC, 		 A-1, 4, 	A-2, A-6	A-	0 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
		loam Unweathered bedrock	 		 			 	 	 	 	 	 		
Upshur	9-36	Silty clay loam Silty clay, clay	 CL, CH,		 A-6, A-7	A-7		 0 0						35-70 45-70	
	36-44	Silty clay	ML	CL, MH,	A-6, 	A-7		0	0 	80-100 	65-100 	60-100 	55-95 	35-55 	11-25
		Weathered bedrock	 		 			 	 	 	 	 	 	 	
Other soils			 		 			 	 	 	 	 	 		
GuC3: Gilpin	5-27	Channery loam, channery silt loam, silty	CL,	CL-ML,	 A-4, A-2,	A-6 A-4,	A-6	 0 0				 70-85 35-85 		 20-40 20-40 	 4-15 4-15
	27-35	clay loam Channery loam, very channery silt loam, very channery	 GC, 	GC-GM	 A-1, 4,	A-2, A-6	A-	 0	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	silty clay loam Unweathered bedrock	 		 			 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	fication 	l	ments			e passi: umber	_	 Liquid	
and soil name 		 	 Unified 	 AASHTO 	>10 inches 		 4 	10 	40 	200 	limit 	ticity index
Upshur	9-36	Silty clay,	 CL, ML CH, CL	A-7 A-7	Pct 0 0 0				90-100			
 	36-44	loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	 0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
 Other soils	44-48	Weathered bedrock 	 		 	 	 	 	 	 	 	
GuD:			1									
Gilpin	5-27	Channery loam, channery silt loam, silty		A-4, A-6 A-2, A-4, A-6	 0 0				70-85 35-85 			
 	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay	 	A-1, A-2, A- 4, A-6 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
		loam Unweathered bedrock 	 	 	 	 	 	 	 	 	 	
Upshur 	9-36	 Silty clay loam Silty clay, clay	 CL, ML CH, CL	 A-6, A-7 A-7	 0 0				 90-100 90-100			
	36-44	Silty clay	CH, CL, MH, ML 	A-6, A-7	0 	0 	80-100 	65-100 	60-100 	55-95 	35-55 	11-25
į		bedrock	į	į	İ	İ	İ	İ	į	İ	İ	İ
Other soils		 	 		 	 	 	 	 	 	 	
GuD3: Gilpin 	5-27	Channery loam, channery silt loam, silty		 A-4, A-6 A-2, A-4, A-6	 0 0				 70-85 35-85 		 20-40 20-40 	 4-15 4-15
	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay loam	 GC, GC-GM 	A-1, A-2, A- 4, A-6 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	Unweathered bedrock		 	 	 	 	 	 	 	 	
Upshur	5-36		CL, MH, ML CH, CL, MH	A-7 A-7	0 0				90-100			
	36-44	Very channery	CH, CL, MH, ML 	A-6, A-7	 0 	 0 	 80-100 	 65-100 	60-100 	 55-95 	 35-55 	 11-25
		Weathered bedrock	 		 	 	 	 	 	 	 	
Other soils		 	 		 	 	 	 	 	 	 	
GuE: Gilpin 	5-27	 Silt loam Channery loam, channery silt loam, silty		 A-4, A-6 A-2, A-4, A-6	 0 0 1		 80-95 50-95 				 20-40 20-40 	 4-15 4-15
		clay loam Channery loam,	 GC, GC-GM	 A-1, A-2, A-	 0	 0-35	 25-55	 20-50	 15-45	 15-40	 20-40	 4-15

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication	Fragi	ments		_	e passinumber	_	 Liquid	
and soil name		 	Unified	AASHTO	>10 inches			10	40	200	limit 	ticity index
		very channery silt loam, very channery silty clay loam Unweathered		4, A-6	Pct	 Pct 	 	 	 	 	Pct	
		bedrock	 			 	 	 	 	 	 	
Other soils		 	 					 		 		
Upshur	9-36	Silty clay loam Silty clay, clay		A-6, A-7 A-7	0 0				90-100 90-100			
	36-44	Very channery	CH, CL, MH,	A-6, A-7	0	0	80-100	 65-100 	60-100	 55-95 	35-55	11-25
	44-48	clay, clay weathered bedrock	 	 		 	 	 	 	 	 	
GuE3: Gilpin 	5-27	Channery loam, channery silt		 A-4, A-6 A-2, A-4, A-6	0 0				 70-85 35-85			
	27-35	loam, silty clay loam Channery loam, very channery silt loam, very channery silty clay	 	 A-1, A-2, A- 4, A-6 	 0 1 1	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	loam Unweathered bedrock	 			 	 	 	 	 	 	
Other soils												
Upshur	5-36	Silty clay,	 CL, MH, ML CH, CL, MH	A-7 A-7	0 0	 0 0			 90-100 90-100			
 	36-44	silty clay loam, silty	 CH, CL, MH, ML 	A-6, A-7	 0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
 		clay, clay Weathered bedrock	 		 	 	 	 	 	 	 	
GuF: Gilpin 	5-27	 Silt loam Channery loam, channery silt loam, silty	CL, CL-ML,	 A-4, A-6 A-2, A-4, A-6					 70-85 35-85 			
 - -	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay	 	 A-1, A-2, A- 4, A-6 	0 0 1 1 1 1 1 1 1 1	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	loam Unweathered bedrock	 			 	 	 		 	 	
Other soils												
Upshur	9-36		 CL, ML CH, CL, MH	 A-6, A-7 A-7	0 0	 0 0			 90-100 90-100		 35-70 45-75	
	36-44	silty clay loam, silty	 CH, CL, MH, ML 	A-6, A-7	 0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
 	44-48	clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

 Map symbol	Depth	 USDA texture	Classif 	ication	Fragi 	ments			e passir umber	-	 Liquid	
and soil name		 	Unified	 AASHTO	>10 inches	3-10 inches	 	10	40	200	limit 	ticity index
	—In		 	- 	 Pct 	 Pct 	 	 	 	 	 Pct 	
GuF3: Gilpin 	5-27	Channery loam, channery silt loam, silty	CL, CL-ML,	A-4, A-6 A-2, A-4, A-6	 0 0 				 70-85 35-85 			
 	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay	 GC, GC-GM 	 A-1, A-2, A- 4, A-6 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
 	35-39	loam Unweathered bedrock 	 		 	 	 	 	 	 	 	
Other soils		 I	 		 		 		 		 	
Upshur	5-36		CL, MH, ML	A-7 A-7	0 0				90-100 90-100			
 	36-44	Very channery silty clay loam, silty	CH, CL, MH, ML	A-6, A-7	0 0 	0 	80-100 	65-100 	60-100 	55-95 	 35-55 	 11-25
 	44-48	clay, clay Weathered bedrock 	 	 	 	 	 	 	 	 	 	
GvE: Gilpin		 Very stony silt loam	 CL, CL-ML, GC, SC	 A-2, A-4, A-6	0-2	10-40	 50-90	 45-85	 35-75	 30-70	 20-40	 4-15
 	5-27	Channery silt loam, channery loam, silty	CL, CL-ML,	A-2, A-4, A-5	 0 	0-30 	 50-95 	 45-90 	 35-85 	30-80 	 20-41 	 4-15
 	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay		 A-4, A-5, A- 1, A-2 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-42 	 4-15
 	35-39	loam Unweathered bedrock 	 - -	 	 	 	 	 	 	 	 	
Other soils		 	 		 		 					
Upshur	9-36	Silty clay loam N Silty clay, clay	ML, CL CH, CL, MH	A-6, A-7	0-2			95-100	90-100 8 90-100 	85-100		
 	36-44	Very channery	CH, CL, MH, ML	A-6, A-7	0 	0 	80-100 		60-100 		 35-55 	 11-25
 	44-48	clay, clay Weathered bedrock 	 - -	 	 	 	 	 	 	 	 	
GvF:		 Very stony silt loam	CL, CL-ML, GC, SC	 A-2, A-4, A-6	0-2	 10-40	 50-90	 45-85	 35-75	30-70	 20-40	 4-15
 	5-27	Channery silt loam, channery loam, silty	CL, CL-ML,	A-2, A-4, A-5	0	0-30	 50-95 	 45-90 	 35-85 	30-80 	20-42 	4-15
 	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay		 A-1, A-2, A- 4, A-5 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-42 	 4-15
 	35-39	loam Unweathered bedrock	 		 	 	 		 		 	
Other soils												

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	 	Classif	icati	on		Fragr	ments			e passinumber		 Liquid	 Plas-
and soil name	-	 	l U	Unified	l I A	ASHTO		>10 inches		4	10	1 40		limit	
	—In							Pct	Pct	l	 	 			
 	9-36	 Silty clay loam Silty clay, clay			 A-6, A-7	A-7		0-2				90-100 90-100			
 	36-44	Very channery	CH, ML	CL, MH,	A-6, 	A-7		0	0	80-100 	65-100 	60-100 	55-95	35-55 	11-25
	44-48	Clay, Clay Weathered bedrock	 		 				 	 	 	 	 	 	
HaA: Hackers	0-9	 	l I CT.	CL-ML, ML	 A-4.	A-6		0	 0	 90–100	 90–100	 75-100	 60-90	 20-35	 3-12
	9-39	Silt loam, clay loam, silty clay loam						0				90-100			
 		Stratified very gravelly fine sandy loam to silty clay loam		ML, SC,	A-4, 	A-6		0	0	85-100 	60-100 	55-95 	40-85	20-40 	1-15
Melvin			 		 				 	 	 		 	 	
HaB: Hackers 	9-39	Silt loam, clay loam, silty		CL-ML, ML				0				 75-100 90-100		 20-35 19-55 	3-12 3-18 4-18
 	39-60	clay loam Stratified very gravelly fine sandy loam to silty clay loam	SM	ML, SC,	 A-4, 	A-6		0	 0 	 85-100 	 60-100 	 55-95 	 40-85 	 20-40 	 1-15
Hu: Huntington	10-45			CL-ML, ML				0				 85-100 85-100			
 	45-60		 CL, SM	ML, SC,	 A-2, 	A-4		0	 0-10 	 85-100 	 60-100 	 50-90 	 30-75 	 15-30 	 NP-10
 Melvin		 	 		 				 	 	 	 	 	 	
KaA: Kanawha 	10-31	Loam, sandy clay loam,		CL-ML, ML ML, SC,		A-4,	A-6	0				 65-100 60-100 			
 - 	31-60	clay loam Fine sandy loam, gravelly fine sandy loam, sandy clay loam		ML, SC,	 A-2, 	A-4,	A-6	0	 0 	 60-100 	 55-100 	 40-95 	 20-60 	 20-35 	 2-12
Melvin		 	 		 				 	 	 	 	 	 	
KaB: Kanawha 		Loam, sandy clay loam,		CL-ML, ML ML, SC,		A-4,	A-6	0				 65-100 60-100			2-10
	31-60	clay loam Fine sandy loam, gravelly fine sandy loam, sandy clay loam		ML, SC,	 A-2, 	A-4,	A-6	0	 0 	 60-100 	 55-100 	 40-95 	 20-60 	 20-35 	 2-12
Melvin		 	 		 				 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication	l	ments			e passinumber	_	 Liquid	
and soil name		 	 Unified	AASHTO	>10 inches		 4	10	1 40	200	limit 	ticity index
	-In	!	 	 	Pct	Pct	!	 	<u> </u>		Pct	<u> </u>
LlC: Lily 		Clay loam, sandy clay	 CL-ML, ML CL, ML, SC, SM	 A-4 A-4, A-6 	 0 0				 70-95 75-100 			
	20-24	Sandy clay		 A-1-b, A-2, A-4, A-6	 0 	 0-10 	 65-100 	 50-100 	 40-95 	 20-75 	 15-35 	 3-15
İ		Unweathered bedrock	 		 	 	 	 	 	 	 	
LlD: Lily		Clay loam, sandy clay	CL, ML, SC,	 A-4 A-4, A-6	 0 0				 70-95 75-100			
	20-24	Sandy clay	SM	A-1-b, A-2, A-4, A-6	 0 	 0-10 	 65-100 	 50-100 	 40-95 	 20-75 	 15-35 	 3-15
	24-28	Toam Unweathered bedrock 	 	 	 	 	 	 	 	 	 	
LiE:		Clay loam, sandy clay	CL, ML, SC,	 A-4 A-4, A-6	 0 0				 70-95 75-100			
 - -	20-24	Sandy clay	SM	 A-1-b, A-2, A-4, A-6 	 0 	 0-10 	 65-100 	 50-100 	 40-95 	 20-75 	 15-35 	 3-15
 		Unweathered bedrock 	 	 	 	 	 	 	 	 	 	
Ln: Lindside	8-60		 CL, CL-ML, ML CL, CL-ML, ML 		 0 0 	 0 0 			 80-100 90-100 		 20-35 19-55 	 2-15 4-18
	60-64	fine sandy loam		 	 0 1 1	0	 60-100 	 55-100 	 45-100 	 30-95 	 20-55 	 4-18
Melvin		 	 			 	 	 	 			
Me: Melvin	9-60		 CL, CL-ML, ML CL, CL-ML 	 A-4 A-4, A-6	 0 0				 80-100 80-100			
 	60-64	loam Silt loam, silty clay loam, loam	 CL, CL-ML 	 A-4, A-6 	 0 	0	 85-100 	 80-100 	 70-100 	 60-98 	 25-40 	 5-20
Mf: Melvin 	9-60		 CL, CL-ML, ML CL, CL-ML 	 A-4 A-4, A-6 	 0 0 				 80-100 80-100 			

Table H.--Engineering Index Properties--Continued

Map symbol	Dept.h	USDA texture	Classif	icati	on	Fragr	ments		rcentage	e passir		 Liquid	 Plas-
and soil name		 	Unified	 A		>10 inches		4	10	40		limit	
Lindside 	8-60	Silty clay loam, silt loam, very fine sandy	CL, CL-ML, ML CL, CL-ML, ML			Pct 0 0	Pct 0 0					Pct 20-35 19-60 	
 	60-64	loam Stratified gravelly sandy loam to silty clay loam	 CL, ML, SC, SM 	 A-2, 	A-4, A-6	 0 	 0 	 60-100 	 55-100 	 45-100 	 30-95 	 20-60 	 4-18
Other soils		 	 	 		 	 	 	 	 	 	 	
MgB: Monongahela	0-9		 CL-ML, ML, SC-SM, SM	 A-4		 0	 0-5	 90-100	 85-100	 75-100	 45-90	20-35	 1-10
 		Silt loam, clay loam, gravelly	CL, CL-ML, ML	A-4,	A-6	0	0-15	 90-100 	 80-100 	 75-100 	 70-90 	20-60 	 5-15
 	25-60		 CL, ML, SC, SM 	 A-4, 	A-6	 0 	 0-10 	 80-100 	 60-100 	 55-95 	 45-95 	 20-40 	 3-15
 	60-72	Silt loam, clay loam, gravelly sandy loam		A-4,	A-6	0	10-20	75-100 	60-90 	60-85 	40-85 	20-40	1-15
Robertsville		 !	 	i !							 	i	
MgC: Monongahela	0-9		 CL-ML, ML, SC-SM, SM	 A-4		 0	 0-5	 90-100	 85-100	 75-100	 45-90	20-35	1-10
		Silt loam, clay loam, gravelly	CL, CL-ML, ML	A-4,	A-6	0	0-15	90-100	80-100	 75-100 	70-90 	20-60 	5-15
	25-60		 CL, ML, SC, SM	 A-4, 	A-6	 0 	 0-10 	 80-100 	 60-100 	 55-95 	 45-95 	20-40	 3-15
 	60-72	Ioam Silt loam, clay loam, gravelly sandy loam		A-4, 	A-6	0 	 10-20 	 75-100 	 60-90 	 60-85 	40-85 	20-40 	 1-15
Mo: Moshannon	0-9		 CL, CL-ML, ML			0				 90-100			 3-15
 		Silt loam, silty clay loam	CL, CL-ML, ML 	A-4,	A-6	0 	0 	95-100 	90-100 	90-100 	80-95 	18-40 	3-15
; ;	37-60	Silt loam, clay loam, gravelly fine sandy loam	CL, CL-ML, ML, SC 	A-4, 	A-6	0	0 	80-100 	70-100 	55-100 	35-80 	18-40	3-15
Melvin		I	I	i I				I	I	I	I		 I
Se: Senecaville	6-30	Silty clay loam, silt	 CL-ML, ML, CL CL, CL-ML, ML			 0 0						 20-35 19-60 	
	30-60	loam Silt loam, fine sandy loam, loam	CL, ML, SC, SM	A-4,	A-6	0	 0-5 	 90-100 	 70-100 	 65-95 	 45-90 	20-40 	 1-15
Melvin			 	 			 	 	 		 		
Sf: Senecaville	6-30	Silty clay loam, silt	 CL, CL-ML, ML CL, CL-ML, ML 			0 0						 20-35 19-60	
 	30-60		 CL, ML, SC, SM	 A-4,	A-6	 0 	 0-5 	 90-100 	 70-100 	 65-95 	 45-90 	 20-40 	 1-15
 Melvin		loam 		1		 			 				

Table H.--Engineering Index Properties--Continued

 Map symbol	Depth	 USDA texture	Classif 	ication		·	ments			e passi: umber	_	 Liquid	
and soil name		 	 Unified	 AASH	ITO	>10 inches	3-10 inches		10	40	200	limit 	ticity index
	—In	1	1 			Pct	 Pct	 	 	 	 	 Pct	
Sn: Sensabaugh	7-29	 Silt loam Gravelly loam, gravelly clay		 A-4 A-4, A-	· 6	 0 0				 65-85 45-75			
		loam, gravelly silty clay loam Gravelly loam,	 	 A-2, A-	4. A-6	 0	 5-30	 55-90	 25-75	 25-65	 20-55	 20-36	 6-15
 		gravelly clay loam, gravelly fine sandy loam	SC, SC-SM	 	,		 	 	 	 	 	 	
Melvin			 	 	-	 	 	 	 	 	 	 	
SrB: Sensabaugh	0-7	 Silt loam	 - CL, CL-ML, ML	 7 = 4		, 0	 0-5	 00_100	 75_95	 65-85	 55_75	 16-29	 3-9
	7-29	Gravelly loam, gravelly clay loam, gravelly silty clay loam	CL, CL-ML, GC, SC-SM	A-4, A-	6	0				45-75 			
 		Gravelly loam, gravelly clay loam, gravelly fine sandy loam	SC, SC-SM	A-2, A-	4, A-6	0	5-30 	55-90 	25-75 	25-65 	20-55 	20-36 	6-15
TlB: Tilsit	0-6	 Silt loam	 CL, CL-ML	 A-4, A-	.6	l I 0	l I 0	 90=100	 85-100	 75-100	 60=100	 20-35	 4-15
	6-24			A-4, A-		0				75-100 75-100 			
 		Silt loam, silty clay loam, loam	CL, CL-ML 	A-4, A-	6, A-7	0 	0 	90-100 	85-100 	75-100 	65-100 	25-45 	5-25
 	49-62	Channery silt loam, silty clay loam,	CH, CL, CL-ML 	A-4, A-	6, A-7	0	0-30 	70-100 	65-85 	60-85 	55-80 	25-60 	5-35
_	62-66	silty clay Unweathered bedrock	 	 		 	 	 	 	 	 	 	
Ty: Tyler 	9-24	Silty clay loam, silt		 A-4 A-4, A-	6, A-7	0 0	 0 0			 90-100 90-100			4-10 8-20
 	24-52	loam Silty clay loam, silt loam, clay	 CL 	 A-4, A- 	6, A-7	 0 	 0 	 90-100 	 85-100 	 80-100 	 65-95 	 25-45 	 8-20
 		loam Stratified gravelly loam to silty clay loam	 CL, CL-ML, ML 	 A-4, A- 	6, A-7	 0 	 0 	 85-100 	 75-100 	 75-100 	 55-90 	 20-45 	 4-18
 Purdy 		 	 	 	-	 	 	 	 	 	 	 	
UA: Udifluvents			 	 			 	 			 		
Fluvaquents			 	 	-	 	 	 	 		 		
Other soils			 	 	-	 	 	 	 	 	 	 	
 Melvin			 	 	-		 	 	 	 	 	 	
UB: Udorthents		 	 	 		 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	fication	I	ments		rcentage sieve n	e passin umber	_	 Liquid	
and soil name		 	 Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit 	ticity index
	—In	<u> </u>		·	Pct	Pct	!	! !	! !	! !	Pct	<u> </u>
UC: Udorthents		 	 				 	 		 		
Wet minesoil		 				 	 	 		 		
UD: Udorthents		 	 		 	 	 	 	 	 	 	
UeB: Upshur	0 0		 	 A-6, A-7			 0	 05 100	 90-100			
	9-36	Silty clay loam Silty clay, clay	CH, CL, MH	A-7	0 0				90-100 90-100			
 	36-44	Very channery silty clay loam, silty	CH, CL, MH, ML	A-6, A-7 	0	0 	80-100 	65-100 	60-100 	55-95 	35-55 	11-25
 	44-48	clay, clay Weathered bedrock 	 		 	 	 	 	 	 	 	
UeC: Upshur	9-36		 CL, ML CH, CL, MH	 A-6, A-7 A-7	 0 0				 90-100 90-100			 11-25 20-40
	36-44	clay Very channery silty clay	 CH, CL, MH, ML	A-6, A-7	0	I 0	 80-100	 65-100	 60-100	 55-95	35-55	11-25
 	44-48	Silty Clay loam, silty clay, clay Weathered bedrock	 - -		 	 -	 	 	 	 	 	
UfC3:		 	 	 	 	 	 	 	 	 	 	
Upshur	5-36	Silty clay,	CL, MH, ML CH, CL, MH	A-7 A-7	, 0 0				90-100 90-100			
 	36-44		CH, CL, MH, ML	A-6, A-7	0 0	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
, , ,	44-48	clay, clay Weathered bedrock	 		 	 	 	 	 	 	 	
UgC: Upshur	9-36		CL, ML CH, CL, MH	 A-6, A-7 A-7	 0 0				 90-100 90-100			
 	36-44	clay Very channery silty clay loam, silty	 MH, ML, CH, CL	 A-6, A-7 	 0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
 	44-48	clay, clay Weathered bedrock	 		i !	 !	 	 !	 !	 	i !	 !
 Gilpin 	5-27	Silt loam Channery loam, channery silt loam, silty		A-4, A-6 A-2, A-4, A-6	 0 0 				 70-85 35-85 			
 	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay	 GC, GC-GM 	A-1, A-2, A- 4, A-6 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
 		loam Unweathered bedrock 	 		 	 	 	 	 	 	 	
Other soils		 	 			 	 	 	 	 		

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Class	fication	Fragr	ments			e passinumber		 Liquid	 Plas-
and soil name	=	 	 Unified	AASHTO	>10 inches		i	10	40		limit	
	In	<u> </u>	l		 Pct	 Pct		l		 	 Pct	l
UgC3:		I I	 		 	 	 	 	[[
Upshur			CL, MH, ML CH, CL, MH	A-7 A-7	0 0		95-100 95-100					
		clay	CH, CL, MH,	 A-6, A-7	I 0	l	 80-100	l	1	l	l	l
 			ML 		 	 		 			 	
İ		bedrock	 -	i	 	 	 	 	i I	 	 	
Gilpin 	5-27	Silt loam Channery loam, channery silt loam, silty clay loam		A-4, A-6 A-2, A-4, A-6	0 0 0		80-95 50-95 				20-40 20-40 	4-15 4-15 4-15
	27-35	Channery loam, Channery loam, very channery silt loam, very channery silty clay loam	 	A-1, A-2, A- 4, A-6	0 	 0-35 	 25-55 	 20-50 	15-45 	15-40 	 20-40 	4-15
 	35-39	Unweathered bedrock 	 		 	 	 	 	 	 	 	
Other soils		 	 		 	 	 	 	 	 	 	
UgD: Upshur	9-36		CL, ML	 A-6, A-7 A-7	 0 0		 95-100 95-100					
 	36-44	clay Very channery silty clay loam, silty	 CH, CL, MH, ML 	A-6, A-7	 0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
 	44-48	clay, clay Weathered bedrock	 	 	 	 	 	 	 	 	 	
Gilpin 	5-27	Silt loam Channery loam, channery silt loam, silty		A-4, A-6 A-2, A-4, A-6	 0 0		80-95 50-95 					
 	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay	 	A-1, A-2, A- 4, A-6	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
 	35-39	loam Unweathered bedrock	 		 	 	 	 	 	 	 	
Other soils			 		 	 		 		 	 	
UgD3: Upshur	5-36		CL, MH, ML	 A-7 A-7	0 0		 95-100 95-100					
	36-44	Very channery	CH, CL, MH, ML 	A-6, A-7	 0 	 0 	80-100 	 65-100 	60-100 	 55-95 	 35-55 	 11-25
 		Weathered bedrock 	 	 	 	 	 	 	 	 	 	
Gilpin 	5-27	Silt loam Channery loam, channery silt loam, silty		A-4, A-6 A-2, A-4, A-6	 0 0 		80-95 50-95 					
 	27-35	clay loam Channery loam, very channery		 A-1, A-2, A- 4, A-6	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15

Table H.--Engineering Index Properties--Continued

Map symbol	Denth	 USDA texture	Classif	ication	Fragi	ments		rcentage	e passin		 Liquid	 Place
and soil name	Depth	USDA CEXCUTE	Unified	AASHTO	>10 >10 inches		i	1 10	40		limit	
	35-39	silt loam, very channery silty clay loam loam Unweathered bedrock		 	Pct	Pct	 	 	 		Pct	
Other soils		 		 	 	 	 	 	 	 	 	
UgE: Upshur	9-36	 Silty clay loam Silty clay, clay	•	 A-6, A-7 A-7	 0 0						 35-70 45-80	
	36-44	Very channery silty clay loam, silty	CH, CL, MH, ML	A-6, A-7 	0	0	 80-100 	 65-100 	 60-100 	55-95 	35-55 	 11-25
 	44-48	clay, clay Weathered bedrock 		 	 	 	 	 	 	 	 	
Gilpin		Silt loam Channery loam,		A-4, A-6 A-2, A-4, A-6	0 0				70-85 35-85		20-40 20-40	4-15 4-15
 	27-35	channery silt loam, silty clay loam Channery loam, very channery silt loam, very channery silty clay	GC, GC-GM	 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	15-40	 20-40 	 4-15
	35-39	loam Unweathered bedrock		 	 	 	 	 	 	 	 	
Other soils		 		 	 	 	 	 	 	 	 	
UgE3: Upshur 	5-36			 A-7 A-7	 0 0						 35-70 45-80	
	36-44	Very channery	CH, CL, MH, ML	A-6, A-7 	0 0 	0 0 	80-100 	65-100 	60-100 	55-95 	35-55 	11-25
 Gilpin 	0-5 : 5-27	Silt loam (Channery loam, channery silt loam, silty	CL, CL-ML,	 A-4, A-6							20-40 20-40 20-40	
	27-35	clay loam Channery loam, very channery silt loam, very channery silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6 	 0 	 0-35 	 25-55 	 20-50 	 15-45 	15-40 	20-40 	 4-15
	35-39	Toam Unweathered bedrock		! 	 	 	 	 	 	 		
Other soils		 		 	 	 	 	 	 	 	 	
Uh: Urban land		 		 	 	 	 	 	 	 	 	
UkB: Urban land	0-6	 Bedrock 		 	 0	 	 	 	 	 	0-14	
Kanawha 	10-22	Fine sandy loam, silt	CL, CL-ML, ML CL, ML, SC, SM	A-4 A-2, A-4, A-6 	0 0 1						20-35 20-35 	

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication		Fragi	ments	Percentage passing sieve number				 Liquid	 Plas-
and soil name			Unified			>10 inches	•	i	10	1 40		limit	ticity
 		clay loam,	CL, ML, SC,	 A-2, A-	4, A-6	Pct 0	Pct 0	 80-100	 75-100	 60-100	 25-80 	Pct 20-40	3-15
	42-60	clay loam Fine sandy loam, gravelly fine sandy loam, sandy clay loam		 A-2, A-4 	4, A-6	 0 	 0 	 60-100 	 55-100 	 40-95 	 20-60 	 20-35 	 2-12
Other soils				 	-	 			 		 		
Melvin		 		 	-	 	 	 	 	 	 	 	
Un: Urban land	0-6	 Bedrock 				 0	 	 	 	 	 	0-14	
Lindside 	8-60		CL, CL-ML, ML i CL, CL-ML, ML			0 0 1 0 1 1 1 1 1 1	0 0 1 0 1 1 1 1 1 1					 20-35 19-60 	
Other soils				 	-	 	 	 	 	 	 	 	
Melvin		 		 	-	 	 	 	 	 	 	 	
UoB: Urban land	0-6	 Bedrock				 0	 	 	 	 	 	0-14	
Monongahela	0-9		CL-ML, ML, SC-SM, SM	A-4		0	0-5	90-100	 85-100	 75-100	 45-90	20-35	1-10
		Silt loam, clay loam, gravelly loam	CL, CL-ML, ML	A-4, A-	6	 0 	0-15	 90-100 	 80-100 	 75-100 	 70-90 	 20-60 	5-15
	25-60	Silt loam,	CL, ML, SC, SM	A-4, A-	6	0	0-10	80-100 	60-100 	 55-95 	45-95 	20-40 	3-15
	60-72	Ioam Silt loam, clay loam, gravelly sandy loam		 A-4, A- 	6	 0 	 10-20 	 75-100 	 60-90 	 60-85 	40-85 	 20-40 	 1-15
Other soils				 	_	 	 	 	 	 	 	 	
UvC: Urban land	0-6	 Bedrock				 0	 	 	 	 	 	0-14	
Other soils					-	 	 	 	 	 	 	 	
Vincent	0-19	Silt loam	CL, CL-ML, ML	A-4, A-	6	0	0	100	100	95-100	80-95	25-40	4-14
		silty clay	CH, CL, MH, ML	A-6, A-	7	0	0	100	95 - 100	90-100	80-100 	38-70 	14-34
 	45-70	Silty clay,		 A-6, A- [*] 	7	 0 	 0 	 100 	 95-100 	 85-100 	 75-100 	 38-70 	 14-34
VaC: Vandalia 	6-52	Silty clay loam, channery silty clay,	CH, CL, ML	 A-4, A-6 A-6, A-6		 0 0						 19-60 35-70 	
	52-60	clay Silty clay, clay, channery silty clay loam	CH, CL, MH, ML	 A-6, A- [*] 	7	 0 	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-70 	 10-30

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth In	USDA texture	Classification					Fragments 						Liquid		
			 Unified						>10 inches		4	10	40	200	limit	ticity index
			 						Pct	Pct		!	¦	<u> </u>	Pct	
Vandalia Vandalia 	6-52	Silty clay loam, channery silty clay,	 CL, CH, 			 A-4, A-6, 	A-6, A-7	A-7	0						 19-70 35-70 	
	52-60	clay Silty clay, clay, channery silty clay loam		CL,	мн,	 A-6, 	A-7		0	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-70 	 10-30
VaE: Vandalia 	6-52	Silty clay loam, channery silty clay,	CL,			 A-4, A-6, 	A-6, A-7	A-7	0						 19-60 35-70 	
 	52-60	clay Silty clay, clay, channery silty clay loam		CL,	МН,	 A-6, 	A-7		0	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	30-70 	 10-30
VbD: Vandalia 	6-52	Silty clay loam, clay loam, silty	CH,		мн,			A-7	0-2						 19-60 35-70 	
 	52-60	clay Channery silty clay, clay, silty clay loam	 CH, ML 	CL,	МН,	 A-6, 	A-7		0	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-70 	 10-30
VdD3: Vandalia 	6-52		CH,				A-6, A-7	A-7					 70-95 65-90 		 19-60 19-80 	•
 	52-60	clay Silty clay, clay, channery silty clay loam		CL,	MH,	 A-6, 	A-7		0	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-80 	 10-30
VeB: Vincent	19-45	Silty clay,			ML, ML MH,				0 0	 0 0					 25-40 38-75	
 	45-70		 CH, ML 	CL,	МН,	 A-6, 	A-7		0	 0 	 100 	 95-100 	 85-100 	 75-100 	 38-70 	 14-34
VeC: Vincent 	19-45	Silty clay, silty clay			ML, ML MH,				0	 0 0					 25-40 38-70	•
	45-70		CH, ML	CL,	мн,	 A-6, 	A-7		0	0	 100 	 95-100 	 85-100 	75-100 	38-70 	 14-34
W: Water		 	 		-	 				 	 	 	 	 		
ZoB: Zoar	9-20	Silty clay, silty clay			ML, ML MH,				0						 20-40 30-70	
 Purdy	20-60	silty clay	 CH, ML	CL,	мн,	 A-6, 	A-7		0	 0 	 95-100 	 95-100 	90-100	 75-95 	 30-70 	 11-35